

Patent claims

1. An automatic gearbox, for a motor vehicle, with infinitely-variable ratio, which may be operated in a constant speed mode, or an acceleration mode,  
5 characterized in that  
the revolution speed in the acceleration mode can be increased or reduced in steps.
- 10 2. An automatic gearbox according to claim 1,  
characterized in that  
the revolution speed increase during an acceleration phase is at least in sections independent from the  
15 ratio.
- 20 3. An automatic gearbox according to claim 1,  
characterized in that  
the revolution speed during an acceleration phase can be increased with approximately constant ratio.
- 25 4. An automatic gearbox according to claim 3,  
characterized in that  
after an acceleration phase subject to the position of the acceleration pedal a further stepped revolution speed increase or a stepped revolution speed reduction can be adjusted.
- 30 5. An automatic gearbox according to claim 3 or 4,  
characterized in that  
the regulating steps for the revolution speed increase or reduction are fixed as a characteristic line or characteristic field subject to further values.
- 35 6. An automatic gearbox according to claim 5,  
characterized in that

in the acceleration mode as far as to achieving the maximum speed five to ten, in particular seven regulating steps are provided.

5 7. An automatic gearbox according to claim 5 or 6,  
characterized in that  
for the revolution speed increase and the revolution  
speed reduction separate regulating steps are  
10 determined respectively.

15 8. An automatic gearbox according to claim 5 to 7,  
characterized in that  
a minimum and a maximum revolution speed are  
associated with each regulating step and that when  
falling below or exceeding the minimum and maximum  
revolution speed a stepped revolution speed change can  
be triggered.

20 9. An automatic gearbox according to one of the preceding  
claims,  
characterized in that  
the stepped revolution speed change in the  
25 acceleration mode can be activated subject to the  
selected driving program.

30 10. An automatic gearbox according to one of the preceding  
claims,  
characterized in that  
the stepped revolution speed change in the  
acceleration mode can be activated subject to the  
driving characteristics.

35 11. An automatic gearbox according to one of the preceding  
claims,  
characterized in that  
the stepped revolution speed change can be upgraded by

an update of the software in a control device.

12. A vehicle,

characterized in that

5 it comprises an automatic gearbox according to one of  
claims 1 to 11.